

OSCARS

Open Science Clusters' Action
for Research & Society

Funded Project

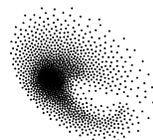
Fail2Fair: Recovering Discarded Macromolecular Crystallographic Data

Implemented by

ibmb

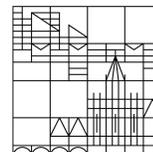


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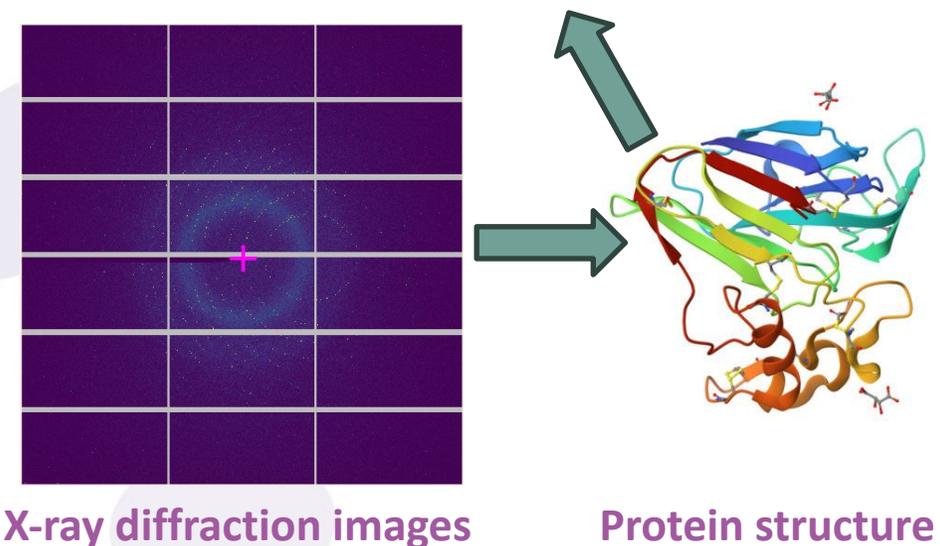
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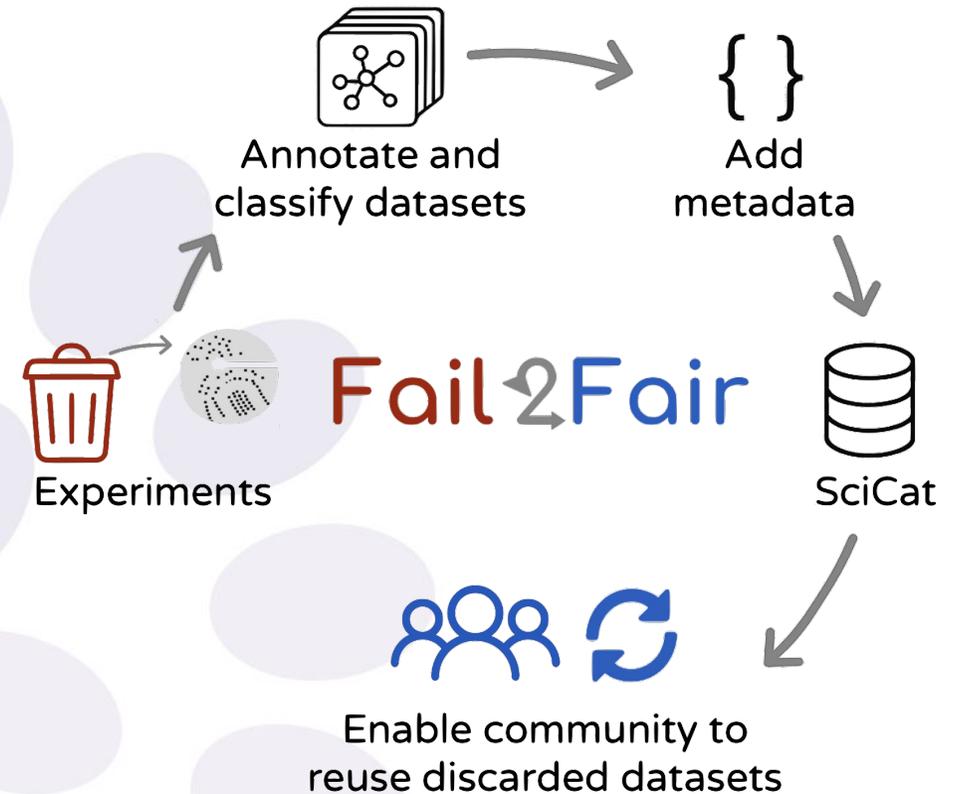
Funded by
the European Union

- **Macromolecular crystallography (MX)** provides vital data for structure biology with applications in health and biotechnology
- Failed MX experiments are rarely archived
- Missing failed datasets limit method development and AI training
- Exponential increase in data rates for MX
- Archiving all X-ray images prohibitively expensive



Synchrotron facility

- Extend metadata models and automate dataset classification
- Compression to allow sustainable archiving and reuse of all datasets
- Engage community feedback and involvement with two workshops



- **We will improve FAIR data availability at synchrotron facilities**
 - **We will provide software to annotate datasets for common pathologies**
 - **We will provide a proof of principle for scientific applications using these data**
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Institute of Molecular Biology of Barcelona (ES)

Isabel Usón

Iracema Caballero

Josep Triviño

Paul Scherrer Institute (CH)

Filip Leonarski

University of Konstanz (DE)

Kay Diederichs

